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IN THE SPECIFICATION:

Please replace the paragraph beginning at page 2, line 7 with the following rewritten paragraph:

--A simplified GSM network architecture is illustrated in Figure 1. As shown in Figure 1, the exemplary GSM network environment includes a home network, generally indicated by reference numeral 100, and a visited network, generally indicated by the numeral 110. As used herein, the term "home network" is used to refer to the network in which an HLR storing the mobile subscriber is subscriber's location and subscription information resides. The term "visited network" refers to the network in which a mobile subscriber is roaming. Home network 100 presented in Figure 1 includes a home location register (HLR) 104 and a gateway mobile switching center (GMSC) 106. Similarly, visited network 110 includes a GMSC 112, a first mobile switching center (MSC) 114 and associated visitor location register (VLR) 116, and a second MSC 120 and associated VLR 122. Also illustrated in Figure 1 are a pair of base station system (BSS) units 118 and 124, which are associated with MSC 114 and MSC 120, respectively.--

Please replace the paragraph beginning at page 3, line 15 with the following rewritten paragraph:

--When a mobile subscriber roams within the coverage areas of different MSC nodes, standard GSM network location updating procedures are employed to keep the mobile subscriber's HLR informed of the current location of the mobile subscriber. For example, as mobile subscriber 126 shown in Figure 1 roams from the service area associated with MSC 114 to that of MSC 120, a number of signaling messages are generated by and communicated between MSC 114, VLR 116, MSC 120, VLR 122, GMSC 112, GMSC 106, and HLR 104. Again, the goal of such signaling activity is to provide the mobile subscriber's HLR with the information necessary to locate the roaming mobile subscriber within a home or visited network[[,]] and to provide the VLR with the information necessary to complete calls to the roaming subscriber. A detailed discussion of such location or call management signaling operations can be found in

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The GSM System for Mobile Communications by Michel Mouly and Marie-Bernadette Pautet, Cell & Sys 1992.--

Please replace the paragraph beginning at page 8, line 13 with the following rewritten paragraph:

--It is another object of the present invention to provide a signal_transfer_point-like network element that includes an integrated GLR processor.--

Please replace the paragraph beginning at page 36, line 24 with the following rewritten paragraph:

--As described above, an MMR node according to embodiments of the present invention caches mobile subscriber information, performs both HLR and VLR functions, and performs SS7 routing functions. Such functions reduce the need for location update messages to be routed to the mobile subscriber's home network each time the mobile subscriber enters an area served by a new MSC within the same visited network. In addition, MMR node 300 may generate location cancellation messages to purge VLRs or HLRs of outdated location information. During mobile terminated call setup, MMR node 300 may respond on behalf of a VLR in response to ProvideRoamingNumber query messages. Thus, an MMR node according to the present invention reduces call setup time, decreases mobility management network traffic, and provides increased functionality over conventional STP and SS7/IP gateway nodes.--